=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

FULL ESTIMATED COST

ENTRY SESSION 0.15 0.15

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=> e "[3'desoxy-3-oxo-mebmt]1-[val]2-ciclosporin"/cn

```
**** START OF FIELD ****
E3
             0 --> 3'DESOXY-3-OXO-MEBMT1-VAL 2-CICLOSPORIN/CN
                    'HYG' TYPE I POLYKETIDE SYNTHASE (STREPTOMYCES
E.4
HYGROSCOPICUS
                     CLONE PAL58/PAL16 MODULE 1 REDUCED)/CN
                    'HYG' TYPE I POLYKETIDE SYNTHASE (STREPTOMYCES
E.5
             1
HYGROSCOPICUS
                    CLONE PAL58/PAL16 MODULE 2 REDUCED)/CN
E6
                    'HYG' TYPE I POLYKETIDE SYNTHASE (STREPTOMYCES
HYGROSCOPICUS
                    CLONE PAL58/PAL16 MODULE 3 REDUCED)/CN
                    'HYG' TYPE I POLYKETIDE SYNTHASE (STREPTOMYCES
ΕŻ
             1
HYGROSCOPICUS
                    CLONE PAL58/PAL16 MODULE 4 REDUCED)/CN
                    (((((1-AMINO-4-HYDROXY-2(OR
E8
             1
3) -ANTHRAQUINONYL) OXY) BENZYL) CAR
                    BAMOYL) METHYL) TRIMETHYLAMMONIUM CHLORIDE/CN
E.9
                    ((((4-METHYLPHENYL)SULFONYL)AMINO)PHENYLMETHYL)PHOSPHONIC
             1
AC
                    ID DIETHYL ESTER/CN
                    ((((4-METHYLPHENYL)SULFONYL)OXY)IMINO)PROPANEDINITRILE/CN
E10
             1
E11
             1
                    ((((AMINOMETHYL)BENZYL)AMINO)METHYL)PHENOL/CN
             1
E12
                    ((((DIETHYLAMINO)METHYLENE)AMINO)METHYLENE)DIETHYLAMMONIUM
С
                   HLORIDE/CN
=> e "(3'desoxy-3-oxo-mebmt)1-(val)2-ciclosporin"/cn
(3'AS-(3'A.ALPHA.,5'A.BETA.,6'.BETA.(S*),8'A.ALPHA.,8'B.BETA
.))-6'-(1,5-DIMETHYLHEXYL)DECAHYDRO-5'-METHYLSPIRO(CYCLOHEXA
                   NE-1,3'(2'H)-AS-INDACENE)/CN
(3'AS-(3'A.ALPHA.,7'A.ALPHA.,9'R*,10'S*(R*)))-9'-CHLORO-2',3
'-DIHYDRO-5-HYDROXY-4,6',7'-TRIMETHOXY-1'-METHYLSPIRO(3-CYCL
                   OPENTENE-1, 10'-(3A, 7A) PROPANO(1H) INDOLE)-2,5'(4'H)-DIONE/CN
E3
             0 --> (3'DESOXY-3-OXO-MEBMT)1-(VAL)2-CICLOSPORIN/CN
E4
                    (3'R)-3',8'-DIHYDRODILIGUSTILIDE/CN
```

```
(3'R)-3'-ACETOXY-4'-DEOXYLEUROSIDINE/CN
E5
Ε6
              1
                    (3'R)-3'-HYDROXYECHINENONE/CN
                    (3'R)-O-METHYLLEUCOTAMINE ACETATE/CN
E7
              1
                    (3'R, 4'S) -CINCHONAMINONE/CN
E8
              1
                    (3'R, 6'R) -2, 3-DIDEHYDRO-.BETA., .EPSILON.-CAROTEN-3'-OL/CN
Ε9
E10
                    (3'R, 6'S) - .BETA., .EPSILON.-CAROTEN-3'-OL/CN
E11
(3'R, 6R, 6'S) -3'-HYDROXY-. EPSILON., .EPSILON.-CAROTEN-3-ONE/CN
E12
(3'R-(3'.ALPHA.(R*),3'A.ALPHA.,5'A.BETA.,5'B.ALPHA.,6'A.ALPH
A., 7'A.ALPHA., 7'B.BETA.))-3'-(1,5-DIMETHYLHEXYL)DODECAHYDRO-
3'A,5'B-DIMETHYLSPIRO(CYCLOPENTANE-1,6'-(6H)CYCLOPROP(B)-AS-
                    INDACENE)/CN
=> s desoxy(1)oxo(1)mebmt
           275 DESOXY
       2131168 OXO
             43 OXOS
       2131168 OXO
                  (OXO OR OXOS)
              0 MEBMT
L1
              O DESOXY(L)OXO(L)MEBMT
=> s ?ciclosporin?/cns
              1 ?CICLOSPORIN?/CNS
L2
=> s ?cyclosporin?/cns
           987 ?CYCLOSPORIN?/CNS
L3
=> s desoxy(1)mebmt
           275 DESOXY
              0 MEBMT
              0 DESOXY(L)MEBMT
L4
=> s bmt(1)(12 or 13)
              5 BMT
L5
              0 BMT(L)(L2 OR L3)
\Rightarrow s desoxy(1)(12 or 13)
           275 DESOXY
L6
              O DESOXY(L)(L2 OR L3)
=> s (oleic acid or palmitoyl oleoyl phosphatidylglycerol or popg)/cn
              1 OLEIC ACID/CN
              O PALMITOYL OLEOYL PHOSPHATIDYLGLYCEROL/CN
              2 POPG/CN
T.7
              3 (OLEIC ACID OR PALMITOYL OLEOYL PHOSPHATIDYLGLYCEROL OR
POPG)/CN
=> s ethanol/cn
L8
              1 ETHANOL/CN
```

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=> s propylene glycol/cn
             1 PROPYLENE GLYCOL/CN
1.9
=> fil medl, caplus, biosis, embase, wpids
COST IN U.S. DOLLARS
                                                 SINCE FILE
                                                                 TOTAL
                                                      ENTRY
                                                               SESSION
FULL ESTIMATED COST
                                                      51.20
                                                                 51.35
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COPYRIGHT (C) 1999 DERWENT INFORMATION LTD
=> s (desoxy(1)oxo(1)(12 or 13 or ciclosporin or cyclosporin) or 12 or 13 or
ciclosporin or cyclosporin)
L10
         22272 FILE MEDLINE
L11
         11200 FILE CAPLUS
         28406 FILE BIOSIS
L12
         38463 FILE EMBASE
L13
'CNS' IS NOT A VALID FIELD CODE
           716 FILE WPIDS
L14
TOTAL FOR ALL FILES
        101057 (DESOXY(L) OXO(L)(L2 OR L3 OR CICLOSPORIN OR CYCLOSPORIN) OR
L15
L2
               OR L3 OR CICLOSPORIN OR CYCLOSPORIN)
=> s 115 and (oleic acid or palmitoyl oleoyl phosphatidylglycerol or popg)
SEARCH ENDED BY USER
SEARCH ENDED BY USER
=> s 115 and (oleic acid or palmitoyl oleoyl phosphatidylglycerol or popg or
L16
             7 FILE MEDLINE
L17
            28 FILE CAPLUS
L18
             6 FILE BIOSIS
            20 FILE EMBASE
'CN' IS NOT A VALID FIELD CODE
             6 FILE WPIDS
L20
TOTAL FOR ALL FILES
            67 L15 AND (OLEIC ACID OR PALMITOYL OLEOYL PHOSPHATIDYLGLYCEROL
L21
OR
```

## POPG OR L7)

```
=> s 121 and (18 or ethanol)
             O FILE MEDLINE
L23
             4 FILE CAPLUS
L24
             0 FILE BIOSIS
             3 FILE EMBASE
'CN' IS NOT A VALID FIELD CODE
L26
             3 FILE WPIDS
TOTAL FOR ALL FILES
            10 L21 AND (L8 OR ETHANOL)
=> dup rem 127;s 127 and (19 or propylene glycol)
PROCESSING COMPLETED FOR L27
              8 DUP REM L27 (2 DUPLICATES REMOVED)
L29
           · 0 FILE MEDLINE
L30
             3 FILE CAPLUS
L31
             O FILE BIOSIS
L32
             1 FILE EMBASE
'CN' IS NOT A VALID FIELD CODE
             2 FILE WPIDS
L33
TOTAL FOR ALL FILES
             6 L27 AND (L9 OR PROPYLENE GLYCOL)
=> d 1-8 128 cbib abs
L28 ANSWER 1 OF 8 CAPLUS COPYRIGHT 1999 ACS
                                                         DUPLICATE 1
             Document No. 128:132441 Medicinal cyclosporin A aerosol
1998:65822
     solutions. Bell, Alexander (Rhone-Poulenc Korer Ltd., UK; Bell,
     Alexander). PCT Int. Appl. WO 9801147 A1 19980115, 21 pp. DESIGNATED
     STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
     DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC,
     LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU,
     SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM,
     AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM,
     DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE,
     SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 97-GB1851
     19970707. PRIORITY: GB 96-14326 19960708; US 96-23048 19960802.
     The invention is related to a soln. formulation of cyclosporin A
     in 1,1,1,2,3,3,3-heptafluoropropane which is suitable for administration
     to a patient by inhalation using any std. medicinal aerosol device. Std.
     excipients normally used in medicinal aerosol formulations to aid valve
     lubrication or improve flavor may also be added. Other medicaments in
     soln. or suspension may be used in addn. to cyclosporin A and
     other propellants in addn. to 1,1,1,2,3,3,3-heptafluoropropane may be
     used. An aerosol was formulated contg. cyclosporin A 50 mg/mL,
     HFC 227 51.2 % by vol., and HFC 134a 48.8 % by vol.
L28 ANSWER 2 OF 8 CAPLUS COPYRIGHT 1999 ACS
              Document No. 129:127180 Controlled-release pharmaceutical
1998:490505
     composition comprising a fatty acid ester of diglycerol. Larsson, Kare;
     Ljusberg-Wahren, Helena; Krog, Niels (GS Development AB, Swed.; Larsson, Kare; Ljusberg-Wahren, Helena; Krog, Niels). PCT Int. Appl. WO 9830206
Α1
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- 19980716, 23 pp. DESIGNATED STATES: W: AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ, DE, DE, DK, DK, EE, EE, ES, FI, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 98-SE9 19980108. PRIORITY: SE 97-61 19970113.
- AB A controlled-release compn. for a biol. active material, which compn. is liq. or liq. cryst. and comprises at least one medium or long-chain fatty acid ester of diglycerol as a carrier for said biol. active material, said
  - biol. active material being dissolved or dispersed in said carrier. A controlled-release topical pharmaceutical contained progesterone 40.0, diglycerol mono-dioleate 54.0, and diglycerol monooleate 6.0%.
- L28 ANSWER 3 OF 8 CAPLUS COPYRIGHT 1999 ACS
- 1998:207280 Document No. 128:275101 Gas and gaseous precursor filled microspheres as topical and subcutaneous delivery vehicles. Unger, Evan C.; Matsunaga, Terry O.; Yellowhair, David (Imarx Pharmaceutical Corp., USA). U.S. US 5733572 A 19980331, 40 pp. Cont.-in-part of U.S. Ser. No. 307,305. (English). CODEN: USXXAM. APPLICATION: US 94-346426 19941129. PRIORITY: US 89-455707 19891222; US 90-569828 19900820; US 91-717084 19910618; US 91-716899 19910618; US 93-76239 19930611; US 93-76250 19930611; US 93-159687 19931130; US 93-160232 19931130; US 93-159674 19931130; US 94-307305 19940916.
- AB Gas and gaseous precursor filled microspheres, and foams provide novel topical and s.c. delivery vehicles for various active ingredients, including drugs and cosmetics. Gas and gaseous precursor filled microcapsules were prepd. from dipalmitoylphosphatidylcholine.
- L28 ANSWER 4 OF 8 EMBASE COPYRIGHT 1999 ELSEVIER SCI. B.V.
  1998224181 EMBASE Interaction of a self-emulsifying lipid drug delivery
  system with the everted rat intestinal mucosa as a function of droplet
  size and surface charge. Gershanik T.; Benzeno S.; Benita S.. S. Benita,
  Department of Pharmaceutics, School of Pharmacy, Hebrew University of
  Jerusalem, P.O.B. 12065, Jerusalem 91120, Israel. benita@cc.huji.ac.il.
  Pharmaceutical Research 15/6 (863-869) 1998.
  Refs: 16.
  - ISSN: 0724-8741. CODEN: PHREEB. Pub. Country: United States. Language: English. Summary Language: English.
- Purpose. To investigate the interaction of positively charged self-AB emulsifying oil formulations (SEOF) following aqueous dilution as a function of resulting emulsion droplet charge and size with rat evened intestinal mucosa, adherent mucus layer and Peyer's patches, using cyclosporine A (CsA) as a lipophilic model drug. Methods. Droplet size determination (TEM technique) and .zeta.-potential measurements were used to characterize the resulting emulsions. For the ex vivo interaction study, the well-known rat intestine everted sac technique was used in combination with confocal microscopy. Results. The positively charged oil droplets formed by SEOF dilutions at ratios of 1/50 and 1/10 elicited the stronger interaction with the mucosal surface. The positive charge of the smaller droplets was more readily neutralized, and even reversed in aqueous solutions containing moderate subphysiological mucin concentrations. Parameters such as droplet size, negativity of the epithelial mucosa potential and presence of the mucus layer on the epithelial surface affected drug mucosa uptake and the adhesion of the positively charged droplets to the rat intestinal mucosa. Conclusions.

The

enhanced electrostatic interactions of positively charged droplets with

the mucosal surface are mostly responsible for the preferential uptake of CsA from the positively charged droplets as compared to negatively charged

droplets irrespective of the experimental conditions used. The increased uptake of the CsA from the negatively charged oil droplets was consistent with the dilution extent, as expected, whereas in the positively charged droplets, an intermediate droplet size range was identified resulting in optimum drug uptake and clearly suggesting that drug uptake was not consistent with either dilution extent or droplet size.

- L28 ANSWER 5 OF 8 CAPLUS COPYRIGHT 1999 ACS

  1997:34732 Document No. 126:135606 Cyclosporin-containing soft capsule compositions. Woo, Jong S. (Hanmi Pharm. Ind. Co., Ltd., S. Korea). U.S. US 5589455 A 19961231, 12 pp. (English). CODEN: USXXAM. APPLICATION: US 95-427187 19950421. PRIORITY: KR 94-37948 19941228.
- AB The present invention relates to a soft capsule compn. contg. a stable microemulsion conc. which is more stable and suitable for the prepn. of cyclosporin-contg. soft capsules. More specifically, the present invention relates to a microemulsion conc. contg. cyclosporin as an active ingredient, polyethylene glycol as a cosurfactant, one component

or a mixt. of two or more selected from the group consisting of an esterified compd. of fatty acid and primary alc., medium chain fatty acid triglyceride and monoglyceride as an oil component, and a surfactant having HLB value of 10 to 17 such as Nikkol HCO-50 or Tween 20, which is suitable for formulation into soft capsules and to a soft capsule compn. contg. said microemulsion conc. In the microemulsion conc. according to the present invention, cyclosporin, polyethylene glycol, the oil component and the surfactant are present in the ratio of 1:0.1-10:1-10:1-10, preferably 1:0.5-8:2-6:2-8, by wt. The soft capsule prepn. contg. polyethylene glycol, Et linoleate, caprylic/capric acid triglyceride, oleic acid monoglyceride, Nikkol HCO-50 or Tween 20 according to the present invention is highly stable during storage in comparison with the prior soft capsules contg. ethanol , propylene glycol, transcutol, glycofurol, etc., as a cosurfactant, and provides an advantage in that the appearance and compn. content of the soft capsule are not changed, and further that since the bioavailability of cyclosporin is about 4 times or more as high as that of the prior com. products and pharmacokinetic properties of cyclosporin including difference between bioavailabilities in resp. subjects are improved, the administration dosage, side effects and costs of the drugs are reduced.

- L28 ANSWER 6 OF 8 EMBASE COPYRIGHT 1999 ELSEVIER SCI. B.V.
  96059463 EMBASE Document No.: 1996059463. The skin: A pathway for systemic treatment with patches and lipid-based agent carriers. Cevc G.; Blume G.; Schatzlein A.; Gebauer D.; Paul A. Medizinische Biophysik, Technische Universitat Munchen, Klinikum r.d.I., Ismaningerstr. 22, D-81675 Munchen, Germany. Advanced Drug Delivery Reviews 18/3 (349-378) 1996.
  ISSN: 0169-409X. CODEN: ADDREP. Pub. Country: Netherlands. Language: English. Summary Language: English.
- AB The fate of epicutaneously administered drug solutions and lipid suspensions and their usefulness for promoting intra- and transcutaneous agent transport are reviewed. Suspensions are argued to act in multiple ways on the skin. Some lipids directly lower the skin permeability barrier, which resides primarily in the stratum corneum. This improves the

efficacy of agent transfer and holds true, in particular, for substances with a relatively high polarity and skin-perturbation capability. One of the reasons for this is the fluidization of skin lipids and/or the improved skin surface hydration by lipoidal skin permeation enhancers.

induction of (boundary leaky) lipid domains in the stratum corneum or lipid-agent complexation followed by the diffusion of the resulting entities into the skin are also potentially useful. Most lipid aggregates,

however, dehydrate and form a 'crust' either on the skin or in the outermost horny layer region, when they are applied non-occlusively. Any such superficial lipid deposit then acts as a reservoir from which the sufficiently mobile agents can diffuse into the skin cells or even into the viable (epi)dermis. It is largely the rate of the drug exchange between the exogenous lipid multilayers on/in the skin and the biological surrounding which determines whether the superficial lipid deposit will increase or decrease the overall efficacy of the transcutaneous agent delivery. In order to obtain significant material amounts reproducibly

and

deep under the skin, specially optimized lipid aggregates must be used. These are characterized primarily by their extremely high, and stress-dependent, deformability. Such aggregates can therefore squeeze themselves between the cells in the stratum corneum in spite of their large size, probably under the influence of the transepidermal water activity gradient. (The postulated central role of hydrotaxis in the transport of lipid aggregates across the skin explains why the skin occlusion normally lowers the rate of the transcutaneous lipid vesicle transfer while it increases the rate of the concentration-driven molecular

permeation across the skin.) Irrespective of the type of application, skin

is nearly totally refractive to the penetration of (ordered) gel phase vesicles. This is not the case for some lipid vesicles formulations with fluid membranes (liposomes) which were shown already to bring more drugs (such as corticosteroids or **cyclosporin**) into the skin than the conventional hydrogels or ointments. The attempts to employ similar liposomes for the systemic drug delivery across the skin, however, were nearly always elusive. Only the most modern self-optimizing aggregates with the ultraflexible membranes (transfersomes) are able to deliver

drugs
reproducibly either into or through the skin, depending on the choice of
administration or application, with a very high efficacy. Such highly
deformable skin, depending on the choice of administration or
application,

with a very high efficacy. Such highly deformable lipid aggregates are therefore already being tested as drug carriers in several therapeutic applications on animals and humans.

L28 ANSWER 7 OF 8 WPIDS COPYRIGHT 1999 DERWENT INFORMATION LTD

AN 95-007788 [02] WPIDS

AB DE 4418115 A UPAB: 950117

A pharmaceutical preparation comprises a macrolide and a carrier consisting of a hydrophilic phase, a lipophilic phase and a surfactant.

Also claimed is a microemulsion preconcentrate carrier (or an agent suitable for oral use which is other than a cyclosporin) consisting of (i) a reaction prod. of castor oil and ethylene oxide; (ii) a re-esterification prod. of a plant oil and glycerine consisting mainly of mono-, di- and tri-glycerine of linoleic and oleic acid or a polyoxyalkylated plant oil; (iii) 1,2-propylene glycol; and (iv) ethanol.

The pharmaceutical composition is in the form of an emulsion- or microemulsion-preconcentrate.

The lipophilic phase comprises 10-85 wt.% of the carrier, the surfactant 5-80 wt.% of the carrier and the hydrophilic phase 10-50 wt.% of the carrier.

The compositions pref. contain rapamycin class cpds. esp. FK506 in

amt. of 2-15 wt.%.

USE - The pharmaceutical preparations contain macrolides such as rapamycin which can be used as an antibiotic with a wide range of applications, esp. for immunosuppression in the treatment and prophylaxis of organ transplant rejection and autoimmune diseases.

Rapamycin-type cpds. also have antitumour and antifungal activity.

ADVANTAGE - The use of the special carrier facilitates the formulation of stable preparations contg. macrolides with high and uniform

bioavailability esp. when used orally.

Thus the macrolide can be administered in lower doses than previously  $\label{eq:can_be} % \begin{array}{c} \text{The macrolide can} & \text{the macrolide can} \\ \text{The macrolide$ 

possible, reducing the problems associated with macrolide toxicity.  $\mathsf{Dwg}.\,\mathsf{O}/\mathsf{O}$ 

L28 ANSWER 8 OF 8 EMBASE COPYRIGHT 1999 ELSEVIER SCI. B.V.
93231229 EMBASE Document No.: 1993231229. Penetration of sandimmune (
cyclosporin A) in rat skin in vitro. Effects of penetration
enhancers and solvents. Schmook F.P.; Stutz A.; Reinhardt J.. Sandoz
Forschungsinstitut, Brunnerstrasse 59,A-1235 Vienna, Austria. Skin
Pharmacology 6/2 (116-124) 1993.
ISSN: 1011-0283. CODEN: SKPHEU. Pub. Country: Switzerland. Language:
English. Summary Language: English.

AB The effect of various fatty acids or alcohols on the penetration rates and

skin concentrations of **cyclosporin** A (Sandimmune; CyA) was evaluated in an in vitro model using skin of hairless rats. The influence of chain length, number and position of double bonds and branching of the carbon chain of the enhancer were investigated. In addition the penetration dependency of CyA on the concentration of both enhancer and CyA was studied. CyA was quantitated by high-performance liquid chromatography. The penetration rates of CyA through rat skin decreased with increasing number of double bonds of the enhancer and decreasing CyA concentrations in the donor solution, and increased with increasing chain length of the enhancer. Enhancers increase penetration rates by a factor of up to 20-90 in alcoholic vs. maximally 5-fold in oily compositions. Enhancers increase skin concentrations of CyA by a factor of up to 10-25 in alcoholic and about 4-20 in oily compositions.

## => s 134 not 127

L35	0	FILE	MEDLINE
L36	0	FILE	CAPLUS
L37	0	FILE	BIOSIS
L38	0	FILE	EMBASE
L39	0	FILE	WPIDS

TOTAL FOR ALL FILES L40 0 L34 NOT L27

=> dup rem 134

PROCESSING COMPLETED FOR L34 L41 5 DUP REM L34 (1 DUPLICATE REMOVED)

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files. REENTER DISPLAY FORMAT FOR ALL FILES (FILEDEFAULT):. L41 ANSWER 1 OF 5 CAPLUS COPYRIGHT 1999 ACS AN 1998:490505 CAPLUS DN 129:127180 ΤI Controlled-release pharmaceutical composition comprising a fatty acid ester of diglycerol IN Larsson, Kare; Ljusberg-Wahren, Helena; Krog, Niels GS Development AB, Swed.; Larsson, Kare; Ljusberg-Wahren, Helena; Krog, PA Niels SO PCT Int. Appl., 23 pp. CODEN: PIXXD2 DT Patent LA English FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE -------------------WO 9830206 19980108 PΙ A1 19980716 WO 98-SE9 W: AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ, DE, DE, DK, DK, EE, EE, ES, FI, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG SE 9700061 19980714 SE 97-61 A 19970113 AU 9855832 19980803 AU 98-55832 Α1 19980108 PRAI SE 97-61 19970113 WO 98-SE9 19980108 ANSWER 2 OF 5 CAPLUS COPYRIGHT 1999 ACS L41 ΑN 1998:207280 CAPLUS DN 128:275101 ΤI Gas and gaseous precursor filled microspheres as topical and subcutaneous delivery vehicles Unger, Evan C.; Matsunaga, Terry O.; Yellowhair, David ΙN PΑ Imarx Pharmaceutical Corp., USA SO U.S., 40 pp. Cont.-in-part of U.S. Ser. No. 307,305. CODEN: USXXAM DT Patent English LA FAN.CNT 18 PATENT NO. KIND DATE APPLICATION NO. DATE ---------PΙ US 5733572 19980331 US 94-346426 19941129 Α US 5088499 US 90-569828 Α 19920218 19900820 WO 9109629 Α1 19910711 WO 90-US7500 19901219 W: CA, JP RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE Т2 19930513 JP 91-503276 JP 05502675 19901219 US 5228446 19930720 US 91-717084 Α 19910618 WO 92-US2615 WO 9222247 A1 19921223 19920331 AU, CA, JP

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AU 667471

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                             19951128
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